Headphone Amp

Moonn Electronics

Use me to build a clone of the MXR Headphone Amplifier

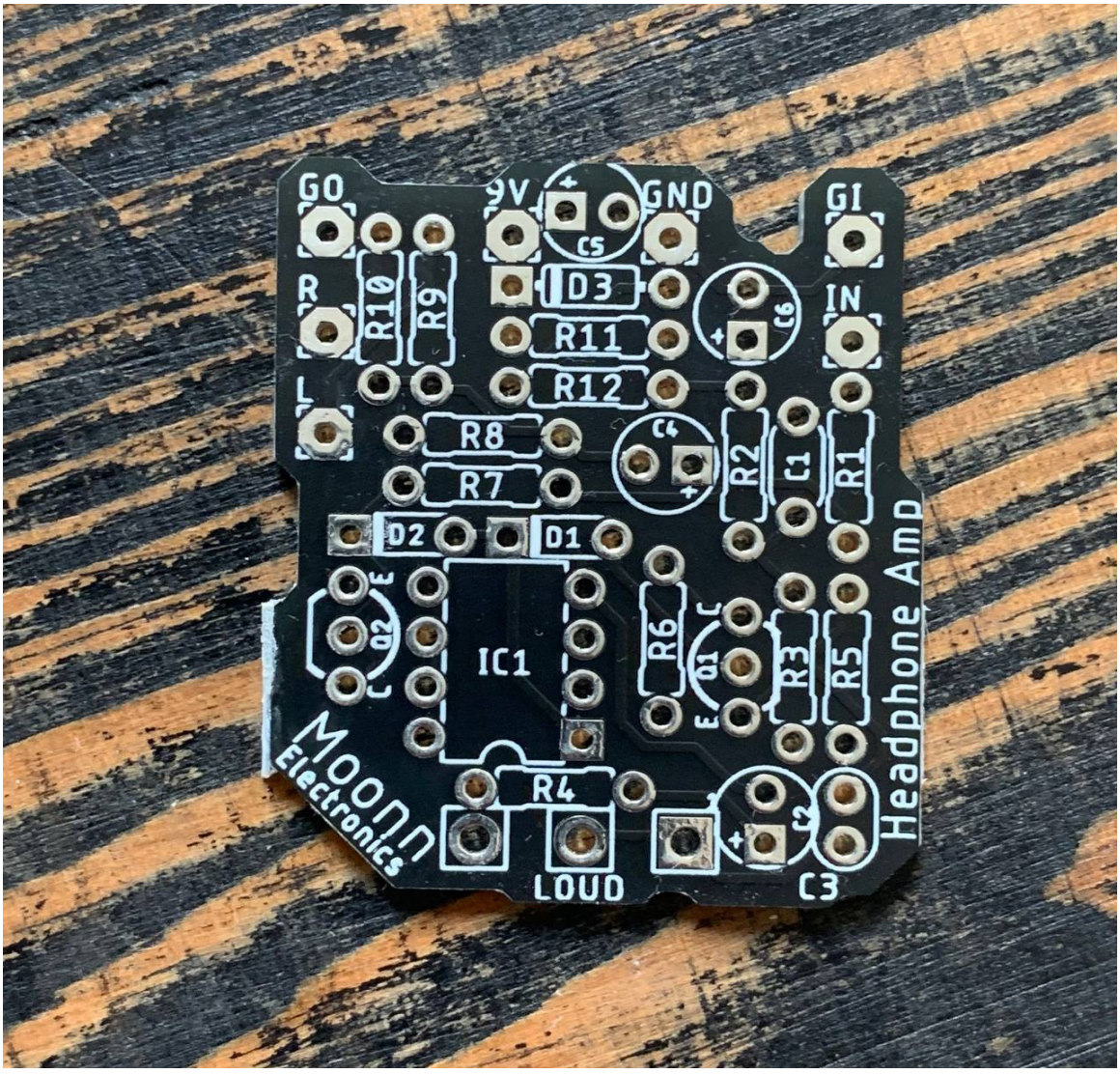
Hi!
Thank you for building me!

What i do is pretty simple.
Just plug your guitar, synth, organ, sampler full of animal sounds or whatever into the input, plug your headphones into the output and make some sounds only for yourself..

This is the documentation for the V2 version of me.
If the PCB you hold in your hand looks different and does not have „V2“ written on the back, please refer to the right documentation.

If you have any questions or anything else to say, just write an email to
moonnelectronics@gmail.com

Have a nice day!



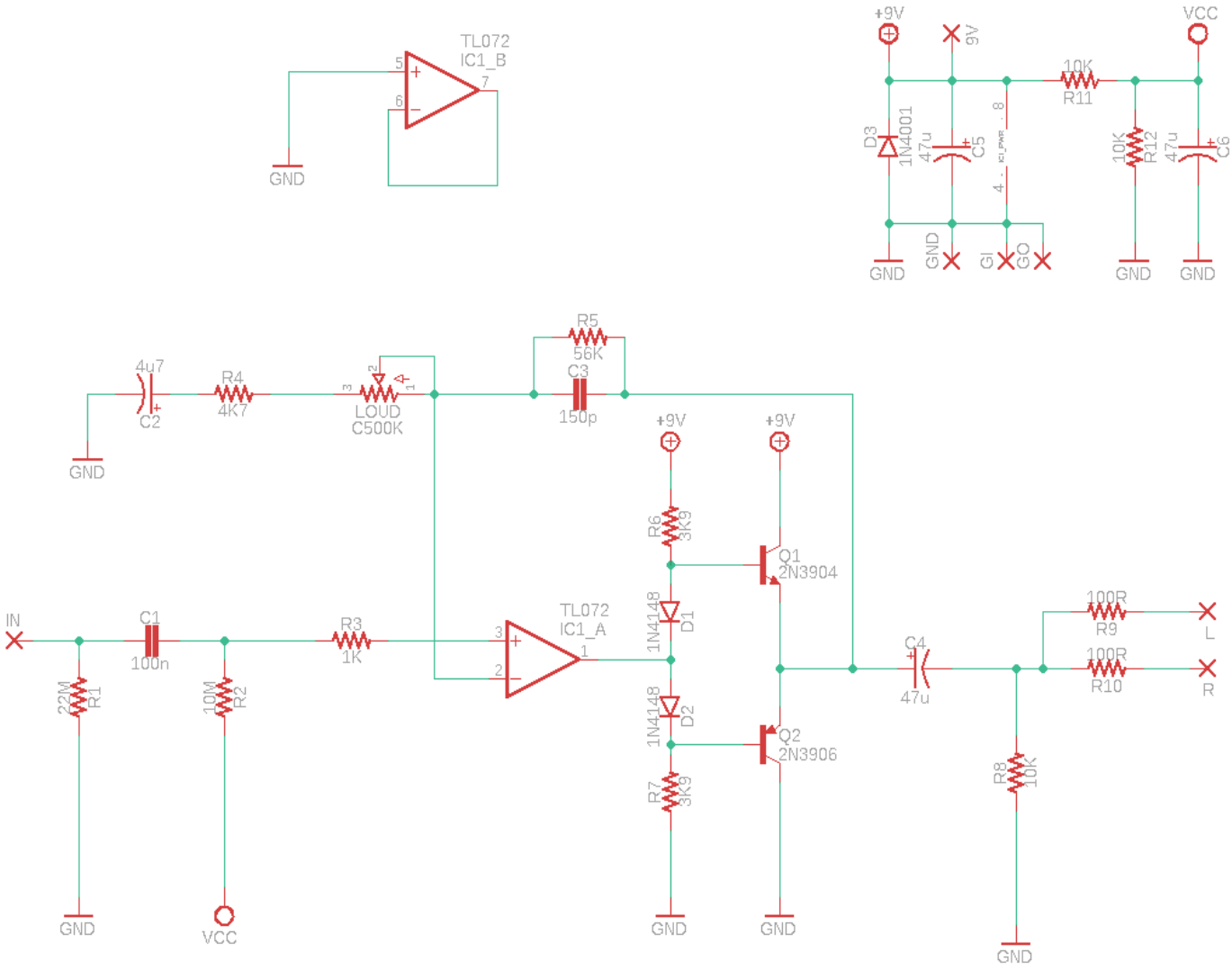
Moonn Electronics is in no way affiliated with MXR

Bill of Materials

Qty	Value	Parts	Notes
Resistors			
2	100R	R9, R10	
1	1K	R3	
2	3K9	R6, R7	
1	4K7	R4	
3	10K	R8, R11, R12	
1	56K	R5	
1	10M	R2	
1	22M	R1	
Ceramic Capacitors			
1	150p	C3	
Film Capacitors			
1	100n	C1	
Electrolytic Capacitors			
1	4u7	C4	
3	47u	C2, C5, C6	
Semiconductors			
2	1N4148	D1, D2	Match for best results
1	1N4001	D3	
1	2N3904	Q1	Match with Q2 for best results
1	2N3906	Q2	
1	TL072	IC1	
Pots and Switches			
1	C500K	LOUD	

Use a stereo jack for the output and connect L and R to the ring and tip lugs and GND to the sleeve

Schematic


TL072
IC1_B
GND
+9V
9V
VCC
10K
R11
D3
1N4001
47u
C5
10K
R12
47u
C6
GND
GND
GI
GO
GND
GND
R5
56K
4µ7
C2
R4
4K7
LOUD
C500K
C3
150p
GND
+9V
+9V
R6
3K9
Q1
2N3904
IN
C1
100n
R3
1K
TL072
IC1_A
1N4148
D1
1N4148
D2
Q2
2N3906
C4
47u
100R
R9
L
100R
R10
R
22M
R1
10M
R2
R7
3K9
R8
10K
GND
VCC
GND
GND
GND